

WHAT IS CLAIMED IS:

1. A tube for a microscope, comprising:
an adaptation interface;
a rotatably disposed operator interface;
a beam deflecting device including a beam-splitting device; and
a rotatably disposed beam deflecting unit, a rotation of the operator interface being constrainedly coupled to a rotation of the beam deflecting unit;
wherein the beam deflecting device is configured to deflect, in a direction of the beam deflecting unit, a light beam coming from the adaptation interface.
2. The tube as recited in claim 1 wherein the beam deflecting device includes a deflecting prism.
3. The tube as recited in claim 2 wherein the deflecting prism is configured to deflect by 90 degrees the light beam coming from the adaptation interface.
4. The tube as recited in claim 1 wherein the beam deflecting device includes a Bauernfeind prism configured to reflect therein twice the light beam coming from the adaptation interface.
5. The tube as recited in claim 4 wherein the beam deflecting device includes a deflecting prism configured to deflect by 90 degrees the light beam coming from the adaptation interface, and wherein the Bauernfeind prism is disposed between the deflecting prism and the beam deflecting unit.
6. The tube as recited in claim 5 further comprising an optical component associated with the Bauernfeind prism, the optical component being configured to split off, to at least one of a documentation interface and a detector, at least a part of the light beam coming from the adaptation interface.

7. The tube as recited in claim 6 wherein the optical component includes a prism attached to the Bauernfeind prism.
8. The tube as recited in claim 6 wherein the prism is cemented to the Bauernfeind prism.
9. The tube as recited in claim 1 wherein optical properties of the beam deflecting device are selectable so that a length of an optical path of the light beam in the tube is adaptable.
10. The tube as recited in claim 1 wherein at least a portion of the beam splitter device is movable into and out of a working position.
11. The tube as recited in claim 10 wherein the at least a portion of the beam splitter device is movable into and out of the working position guided by a magazine slider.
12. The tube as recited in claim 1 wherein the operator interface and the beam deflecting unit are rotatable about a rotation axis, the rotation axis being perpendicular to an optical axis of the light beam.
13. The tube as recited in claim 1 wherein, upon a rotation of the operator interface through a first angle, the beam deflecting unit is configured to rotate through a second angle half as large as the first angle.
14. The tube as recited in claim 1 further comprising a lens device disposed between the adaptation interface and the beam deflecting device, the lens device having a positive refractive power.
15. The tube as recited in claim 14 wherein the lens device is configured to convert a substantially collimated light beam into a converging light beam.

16. The tube as recited in claim 1 further comprising a lens device rotatably disposed between the beam deflecting unit and the operator interface, the lens device including a first lens having a negative refractive power and a second lens having a positive refractive power.
17. The tube as recited in claim 16 wherein the first lens is configured to substantially collimate a light beam coming from the beam deflecting device.
18. The tube as recited in claim 17 further comprising a telescopable assembly telescopable in a direction of an optical axis of a light beam extending therein, the second lens and the operator interface being included in the telescopable assembly.
19. The tube as recited in claim 1 wherein the operator interface includes a binocular element configured for eyepiece viewing by an operator.